## **CLAIMS**

## What is claimed is:

- 1. A method of forming retroreflective sheeting comprising the steps of:
  - a) forming a first mold by forming a plurality of grooves in a body of mold material, the grooves intersecting at an angle to form an array of prisms formed into pairs of prisms, each prism comprising a base aperture and three intersecting lateral faces which meet at an apex, each of the lateral faces having a base edge which forms a portion of the perimeter of the base aperture and said base edge of each lateral face intersects the base edge of a contiguous lateral face to form a base point, wherein a first face of at least one prism in the array includes a first face first planar surface and a first face second planar surface, the first face first planar surface and the first face second planar surface being contiguous along an edge having a first end point and a second end point which forms at least a portion of a middle aperture, wherein the apex, the first end point, and a first base point are coplanar and form a continuous edge from the first base point to the apex;
  - b) forming a second mold in the first mold, the second mold comprising a negative prism array pattern;
  - c) forming said sheeting in said second mold; and
  - d) removing the sheeting from the second mold.
- 2. The method of Claim 1, wherein a second face of the prism having the first face first planar surface and the first face second planar surface includes a second face first planar surface and a second face second planar surface.

- 3. The method of Claim 2, wherein a third face of the prism having the first face first planar surface and the first face second planar surface includes a third face first planar surface and a third face second planar surface.
- 4. The mold of Claim 1, wherein at least one base edge of the prisms includes a length between about 0.002 and 0.05 inches (0.0508 and 1.27 millimeters).
- 5. A method comprising forming retroreflective sheeting that includes an array of transparent prisms formed into pairs of prisms, each prism comprising a base aperture and three intersecting lateral faces which meet at an apex, each of the lateral faces having a base edge which forms a portion of the perimeter of the base aperture and said base edge of each lateral face intersects the base edge of a contiguous lateral face to form a base point, wherein a first face of at least one prism in the array includes at least a first face first planar surface and a first face second planar surface, the first face first planar surface and the first face second planar surface being contiguous along an edge having a first end point and a second end point which forms at least a portion of a middle aperture, wherein the apex, the first end point, and a first base point are coplanar and form a continuous edge from the first base point to the apex.
- 6. The method of Claim 5, wherein a second face of the prism having the first face first planar surface and the first face second planar surface includes a second face first planar surface and a second face second planar surface.
- 7. The method of Claim 6, wherein a third face of the prism having the first face first planar surface and the first face second planar surface includes a third face first planar surface and a third face second planar surface.

- 8. The method of Claim 5, wherein the first face first planar surface and the first face second planar surface form a convex shape as viewed from the exterior of the prism.
- 9. The method of Claim 5, wherein the first face first planar surface and the first face second planar surface form a concave shape as viewed from the exterior of the prism.
- 10. The method of Claim 5, further comprising providing a metalized layer on at least some of the lateral faces.
- 11. The method of Claim 5, wherein the lateral faces are air-backed.
- 12. The method of Claim 5, wherein at least one base edge of a prism includes a length between about 0.002 and 0.05 inches (0.0508 and 1.27 millimeters).
- 13. The method of Claim 5, further comprising forming the array of prisms such that they are negatively canted.
- 14. The method of Claim 13, wherein the array of prisms are canted between about negative one and negative fifteen degrees.
- 15. The method of Claim 1, further comprising forming the array of prisms such that they are positively canted.
- 16. The method of Claim 15, wherein the array of prisms are canted between about one and fifteen degrees.

- 17. A method comprising forming a prism for use in retroreflective sheeting, the prism including a base aperture and three intersecting lateral faces which meet at an apex, each of the lateral faces having a base edge which forms a portion of the perimeter of the base aperture and said base edge of each lateral face intersects a base edge of a contiguous lateral face to form a base point, wherein a first face includes a first face first planar surface and a first face second planar surface, the first face first planar surface and the second planar surface being contiguous along an edge having a first end point and a second end point which forms at least a portion of a middle aperture, wherein the apex, the first end point, and a first base point are coplanar and form a continuous edge from the first base point to the apex.
- 18. The method of Claim 17, wherein a second face of the prism having the first face first planar surface and the first face second planar surface includes a second face first planar surface and a second face second planar surface.
- 19. The method of Claim 18, wherein a third face of the prism having the first face first planar surface and the first face second planar surface includes a third face first planar surface and a third face second planar surface.
- 20. A method comprising forming a mold for casting retroreflective prisms, the mold including a plurality of grooves in a body of mold material, the grooves intersecting at an angle to form an array of prisms formed into pairs of prisms, each prism comprising a base aperture and three intersecting lateral faces which meet at an vertex, each of the lateral faces having a base edge which forms a portion of the perimeter of the base aperture and said base edge of each lateral face intersects the base edge of a contiguous lateral face to form a base point, wherein a first face of at least one prism in the array includes a first face first planar surface and a first face second planar surface, the first face first planar

surface and the first face second planar surface being contiguous along an edge having a first end point and a second end point which forms at least a portion of a middle aperture, wherein the vertex, the first end point, and a first base point are coplanar and form a continuous edge from the first base point to the vertex.